

What is claimed is:

- 1 1. A lead frame disposed within the confines of an engine cover, having an insulating
2 portion and an electrically conducting portion, wherein at least one electrically
3 conducting interconnect is provided, the lead frame comprising:
4 a plurality of retaining elements for retaining or positioning of at least some of the
5 devices within an internal combustion engine; and
6 an electrical connector member extending outside the confines of the internal
7 combustion engine, the electrical connector member having a plurality of
8 electrically conducting terminals in electrical communication with at least
9 some of the devices within the internal combustion engine by means of the
10 at least one electrically conducting interconnect, whereby at least some of
11 the devices within the internal combustion engine are retained and
12 accurately positioned within the internal combustion engine.
- 1 2. The lead frame of claim 1, wherein the electrical connector member is disposed to allow
2 a single electrical connection point with the devices within the engine and to a
3 plurality of other components of the vehicle.
- 1 3. The lead frame of claim 1, wherein both the insulating portion and the electrically
2 conducting portion form an integral piece for retaining and accurately positioning
3 devices within the internal combustion engine.
- 1 4. The lead frame of claim 1, wherein the plurality of retaining elements comprising: M-
2 slots; and shapes adapted for receiving at least some of the devices.

1 5. The lead frame of claim 1, wherein the at least some of the devices comprises:
2 solenoid; and sensors.

1 6. The lead frame of claim 1, wherein the plurality of electrically conducting terminals are
2 pins, blades, or other convenient shape.